# Ruby - Bug #6974

## Functionality Loss in Bignum for Very Large Numbers (5.9 million digits)

09/04/2012 11:59 AM - jks (john sikora)

| | | | |
|---|---|---|---|
| **Status:** | Closed | | |
| **Priority:** | Normal | | |
| **Assignee:** | mrkn (Kenta Murata) | | |
| **Target version:** | | | |
| **ruby -v:** | ruby 1.9.3p194 (2012-04-20) [i386-mingw32] | **Backport:** | 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN |

| **Description** |
|---|
| The 'run' program for hwm = 10 runs fine in 1.9.2 (ruby 1.9.2p290 (2011-07-09) [i386-mingw32]) but it goes awry at coefficient 526 for 1.9.3. The numerator and denominator are correct so I suspect Bignum and not BigDecimal (the 'check' program checks this). Note that each run takes about 3 hours on my computer for hwm = 10. Both 1.9.2 and 1.9.3 work for hwm = 5 to 9 (in much less time). |

| **Related issues:** | | | |
|---|---|---|---|
| Related to Ruby - Bug #7242: Bignum mathematical accuracy regression in r31695 | | **Closed** | **10/30/2012** |

## History

**#1 - 11/04/2012 12:24 PM - mame (Yusuke Endoh)**

*- Status changed from Open to Assigned*

*- Assignee set to mrkn (Kenta Murata)*

Mrkn, could you check this too?
Maybe the same causes as #7242.

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Yusuke Endoh mame@tsg.ne.jp

**#2 - 02/26/2013 10:19 AM - naruse (Yui NARUSE)**

*- Target version changed from 1.9.3 to 2.6*

**#3 - 12/25/2017 06:15 PM - naruse (Yui NARUSE)**

*- Target version deleted (2.6)*

**#4 - 08/05/2019 11:22 PM - jeremyevans0 (Jeremy Evans)**

*- Status changed from Assigned to Closed*

## Files

| | | | |
|---|---|---|---|
| cn_ruby_sc_1r9r3_bug_hwm_10_run.rb | 4.2 KB | 09/04/2012 | jks (john sikora) |
| cn_ruby_sc_1r9r3_bug_hwm_10_check.rb | 935 Bytes | 09/04/2012 | jks (john sikora) |